



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D350-822-011
Job Sheet 183944



order
2483
not shipped yet

Part No: D350-822-011

Job Qty: 1 ea

Part Name: PA100 PUREair System for AS350/EC130



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 10/1/18

Job Tracking No: SIOP

Due Date: 10/26/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: IIN-D350-822 REV.H IPP REV:A 14.02.20 NEW ISSUE DD VERF:JLM IPP REV:B 14.06.18 AS PER IIN
REV.C DD VERF:JLM IPP REV:C 15.06.03 AS PER IIN REV.D DD VERF:JLM IPP REV:C 18.07.11 AS PER
IIN REV.H DD VERF:JFS

Ship Via:

6567

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea	10/26/18	10/26/18	0.00	0.00	Start Up Stores/Pkg-1		NOV 20 2018
110	Packaging	1 pcs	10/26/18	10/26/18	0.00	0.00	Packaging1-4		46 FEB 22 2019
120	QC	1 pcs	10/26/18	10/26/18	0.00	0.00	QC4		9-89
125	Outsource	1 pcs	10/26/18	10/26/18	0.00	0.00	Outsource10		
130	Packaging	1 pcs	10/26/18	10/26/18	0.00	0.00	Packaging3-1		
135	DC	1 pcs	10/26/18	10/26/18	0.00	0.00	DC		FEB 25 2019
140	QC21-FG	1 Ea	10/26/18	10/26/18	0.00	0.00	QC21		FEB 25 2019

Part Op 125 - Issue PO to GL account 50000-25 to LEAVE W/O OPEN UNTIL SOLD PO 642757 (Send copy of PO to Pall
Descriptions: - James) Issue W/O LINE item for Pall for amount sold on sales order S/O 2483 according to sales price see
Warran for amount. (if sale price is \$23,000 - amount is \$13,400) PO can be received immediately and given to finance in
order to close work order.

130 - Identify and pack for shipping as per PPP D350-822-011

135 - Photocopy bluefile & type labels per PPP D350-822-011 CHG004

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
650.0401	Pureair Fairing Assembly	1 Ea (1 ea)	90-Start up Operation	5128691
9752100180	Gasket	1 Ea (1 ea)	90-Start up Operation	5116596
9945000120	Gasket (for B3e models)	1 pcs (1 ea)	90-Start up Operation	5112872
AN821-12J	Elbow (or AN821-12K or 12S)	2 Ea (2 ea)	90-Start up Operation	5116948X1 5114248X1
AN929-12J	Cap	1 Ea (1 ea)	90-Start up Operation	5103922
D4925-041	Mounting Plate Assembly	1 Ea (1 ea)	90-Start up Operation	5132046
D4931-1	Engine Fitting (for acft models B2 & previous)	1 Ea (1 ea)	90-Start up Operation	5059439
D4931-3	Engine Fitting (For B3 Models)	1 Ea (1 ea)	90-Start up Operation	5132388
D4931-5	Engine Fitting (for B3e models)	1 Ea (1 ea)	90-Start up Operation	5135415
D4935-1	Mounting Bracket	6 Ea (6 ea)	90-Start up Operation	5117979
D4943-1	Flex Hose	1 Ea (1 ea)	90-Start up Operation	5082110
D4961-041	Tube Assembly	1 Ea (1 ea)	90-Start up Operation	5119326
D4961-043	Tube Assembly	1 Ea (1 ea)	90-Start up Operation	5119349
D5079-1	Placard, Eaps	2 Ea (2 ea)	90-Start up Operation	5117918
D5090-041	Duct Assembly	1 Ea (1 ea)	90-Start up Operation	5129836
D5105-1	Handle	2 Ea (2 ea)	90-Start up Operation	5119860

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Step #: _____		QTY Effective : _____				MRB (QSI042) Approval																			
Work Order Deviation		Disposition				Completed By																			
Lead hand / Supervisor Approval Verification		QC / QA Coordinator Approval				Approval Verification																			

Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY					
☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter		☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes		☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center		☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence			
OTHER : _____									

	Swivel Nut Fitting	1 Ea (1 ea)	90-Start up Operation	5047765
D5179-1	Doubler	2 Ea (2 ea)	90-Start up Operation	5118074
D5179-3	Doubler	2 Ea (2 ea)	90-Start up Operation	5118072
D5194-1	Doubler	2 Ea (2 ea)	90-Start up Operation	5122034
D5208-041	Blanking Plate Assembly	3 Ea (3 ea)	90-Start up Operation	5131683
LN9038-05012	Bolt	36 pcs (36 ea)	90-Start up Operation	5116942
LN9038-05040	Bolt	1 pcs (1 ea)	90-Start up Operation	5119862
LN9348-05	Nut	32 pcs (32 ea)	90-Start up Operation	5119875025 5119916 X 7
MS20470AD3-4	Rivet, Universal Head	18 Ea (18 ea)	90-Start up Operation	FM132469
MS21919WCH12	Clamp	1 Ea (1 ea)	90-Start up Operation	5115303
MS9592-138	Bracket	1 pcs (1 ea)	90-Start up Operation	5019155
NAS1149D0332J	Washer	70 Ea (70 ea)	90-Start up Operation	5113751
NAS43DD3-64	Spacer	1 Ea (1 ea)	90-Start up Operation	5116952
22208CM050016E	Screw	2 pcs (2 ea)	90-Start up Operation	5115271
23350CA050	Washer	2 Ea (2 ea)	90-Start up Operation	5018736
9945000160	Gasket	1 Ea (1 ea)	90-Start up Operation	5115264
D5526-1	Upper Hose Protector	1 Ea (1 ea)	90-Start up Operation	5118043
D5526-3	Lower Hose Protector	1 Ea (1 ea)	90-Start up Operation	5118052
LN9038-05016	Bolt	2 pcs (2 ea)	90-Start up Operation	FM132469
BS4320-A5	Washer	56 Ea (56 ea)	110-Packaging	5153986
LN29985-A05	Anchor Nut	15 pcs (15 ea)	110-Packaging	5153988
LN9038-05018	Bolt	56 pcs (56 ea)	110-Packaging	5153989
MS20426AD3-3	Rivet	40 Ea (40 ea)	110-Packaging	5153990
QB21304	Pureair Panel Assembly	1 pcs (1 ea)	110-Packaging	5153979
QB21308	Fod Screen Assembly	1 pcs (1 ea)	110-Packaging	5153984
QB21310	Transition Duct Assembly	1 pcs (1 ea)	110-Packaging	5153985
QR10616	Vortex Tube Repair	1 pcs (1 ea)	110-Packaging	5153987
LN9038-05016	Bolt	2 pcs (2 ea)	110-Packaging	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	22208CM050016E	2	12	0
	23350CA050	2	22	0
	650.0401	1	2	0
	9752100180	1	10	0
	9945000120	1	18	0
	9945000160	1	7	0
	AN821-12J	2	32	0
	AN929-12J	1	12	0
	D4925-041	1	9	0
	D4931-1	1	12	0
	D4931-3	1	8	0
	D4931-5	1	8	0
	D4935-1	6	60	0
	D4943-1	1	13	0
	D4961-041	1	8	0
	D4961-043	1	7	0
	D5079-1	2	16	0
	D5090-041	1	4	0
	D5105-1	2	18	0
	D5110-1	1	12	0
	D5179-1	2	17	0
	D5179-3	2	18	0
	D5194-1	2	13	0
	D5208-041	3	8	0
	D5526-1	1	4	0
	D5526-3	1	2	0
	LN9038-05012	36	270	0
	LN9038-05016	2	30	0
	LN9038-05040	1	2	0
	LN9348-05	32	85	0
	MS20470AD3-4	18	6,437	0
	MS21919WCH12	1	7	0
	MS9592-138	1	13	0
	NAS1149D0332J	70	2,386	0
	NAS43DD3-64	1	12	0
110-Packaging	BS4320-A5	56	174	0

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			OTHER : _____																	

LN29985-A05	15	207	0
LN9038-05016	2	30	0
LN9038-05018	56	878	0
MS20426AD3-3	40	3,533	0
QB21304	1	3	0
QB21308	1	3	0
QB21310	1	4	0
QR10616	1	7	0
Part Specifications			
Specifications could not be found.			

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			Completed By
					Lead hand / Supervisor Approval Verification
					QC / QA Coordinator Approval
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D350-822-011
Job Sheet 183944



Part No: D350-822-011

Job Qty: 1 ea

Part Name: PA100 PUREair System for AS350/EC130



Part Weight: 0 lbs

Status: Hold

Priority: Medium

Job Created: 10/1/18

Job Tracking No: SIOP

Due Date: 10/26/18

Created By: Marie Lajeunesse

Type: Stock

Description:

Note: IIN-D350-822 REV.H , DSI9815 REV.A IPP REV:A 14.02.20 NEW ISSUE DD VERF:JLM IPP REV:B 14.06.18
AS PER IIN REV.C DD VERF:JLM IPP REV:C 15.06.03 AS PER IIN REV.D DD VERF:JLM IPP REV:C
18.07.11 AS PER IIN REV.H DD VERF:JFS

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea	11/20/18	10/26/18	0.00	0.00	Start Up Stores/Pkg-1		
110	Packaging	1 pcs		10/26/18	0.00	0.00	Packaging1-4		
113	Small Fab - 2 - B4B	1 pcs		10/26/18	0.00	0.00	Small Fab - 1 - B4B		AP
116	QC 5	1 pcs		10/26/18	0.00	0.00	QC 5 - 10		JK
120	QC	1 pcs		10/26/18	0.00	0.00	QC4		
125	Outsource	1 pcs		10/26/18	0.00	0.00	Outsource10		
130	Packaging	1 pcs		10/26/18	0.00	0.00	Packaging3-1		
135	DC	1 pcs		10/26/18	0.00	0.00	DC		
140	QC21-FG	1 Ea		10/26/18	0.00	0.00	QC21		

Part Op 113 - REPLACE RECEPTACLE KIT AS PER DSI9815

Descriptions: **125** - Issue PO to GL account 50000-25 to LEAVE W/O OPEN UNTIL SOLD PO _____ (Send copy of PO to Pall - James) Issue W/O LINE item for Pall for amount sold on sales order S/O _____ according to sales price see Warran for amount. (if sale price is \$23,000 - amount is \$13,400) PO can be received immediately and given to finance in order to close work order.

130 - Identify and pack for shipping as per PPP D350-822-011

135 - Photocopy bluefile & type labels per PPP D350-822-011 CHG005

PALL Q805008 serial # RE10-10443

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
650.0401	Pureair Fairing Assembly	1 Ea (1 ea)	90-Start up Operation	
9752100180	Gasket	1 Ea (1 ea)	90-Start up Operation	
9945000120	Gasket (for B3e models)	1 pcs (1 ea)	90-Start up Operation	
AN821-12J	Elbow (or AN821-12K or 12S)	2 Ea (2 ea)	90-Start up Operation	
AN929-12J	Cap	1 Ea (1 ea)	90-Start up Operation	
D4925-041	Mounting Plate Assembly	1 pcs (1 ea)	90-Start up Operation	
D4931-1	Engine Fitting (for acft models B2 & previous)	1 pcs (1 ea)	90-Start up Operation	
D4931-3	Engine Fitting (For B3 Models)	1 pcs (1 ea)	90-Start up Operation	
D4931-5	Engine Fitting (for B3e models)	1 pcs (1 ea)	90-Start up Operation	
D4935-1	Mounting Bracket	6 pcs (6 ea)	90-Start up Operation	
D4943-1	Flex Hose	1 pcs (1 ea)	90-Start up Operation	
D4961-041	Tube Assembly	1 pcs (1 ea)	90-Start up Operation	
D4961-043	Tube Assembly	1 pcs (1 ea)	90-Start up Operation	
D5079-1	Placard, Eaps	2 pcs (2 ea)	90-Start up Operation	
D5090-041	Duct Assembly	1 pcs (1 ea)	90-Start up Operation	
D5105-1	Handle	2 pcs (2 ea)	90-Start up Operation	
D5110-1	Swivel Nut Fitting	1 pcs (1 ea)	90-Start up Operation	
D5179-1	Doubler	2 pcs (2 ea)	90-Start up Operation	
D5179-3	Doubler	2 pcs (2 ea)	90-Start up Operation	
D5194-1	Doubler	2 pcs (2 ea)	90-Start up Operation	
D5208-041	Blanking Plate Assembly	3 pcs (3 ea)	90-Start up Operation	
LN9038-05012	Bolt	36 pcs (36 ea)	90-Start up Operation	
LN9038-05040	Bolt	1 pcs (1 ea)	90-Start up Operation	
LN9348-05	Nut	32 pcs (32 ea)	90-Start up Operation	
MS20470AD3-4	Rivet, Universal Head	18 Ea (18 ea)	90-Start up Operation	
MS21919WCH12	Clamp	1 Ea (1 ea)	90-Start up Operation	
MS9592-138	Bracket	1 pcs (1 ea)	90-Start up Operation	
NAS1149D0332J	Washer	70 Ea (70 ea)	90-Start up Operation	
NAS43DD3-64	Spacer	1 Ea (1 ea)	90-Start up Operation	
22208CM050016E	Screw	2 pcs (2 ea)	90-Start up Operation	
23350CA050	Washer	2 Ea (2 ea)	90-Start up Operation	
9945000160	Gasket	1 Ea (1 ea)	90-Start up Operation	
D5526-1	Upper Hose Protector	1 pcs (1 ea)	90-Start up Operation	
D5526-3	Lower Hose Protector	1 pcs (1 ea)	90-Start up Operation	
LN9038-05016	Bolt	2 pcs (2 ea)	90-Start up Operation	
BS4320-A5	Washer	56 Ea (56 ea)	110-Packaging	
LN29985-A05	Anchor Nut	15 pcs (15 ea)	110-Packaging	
LN9038-05018	Bolt	56 pcs (56 ea)	110-Packaging	
MS20426AD3-3	Rivet	40 Ea (40 ea)	110-Packaging	
QB21304	Pureair Panel Assembly	1 pcs (1 ea)	110-Packaging	
QB21308	Fod Screen Assembly	1 pcs (1 ea)	110-Packaging	
QB21310	Transition Duct Assembly	1 pcs (1 ea)	110-Packaging	
QR10616	Vortex Tube Repair	1 pcs (1 ea)	110-Packaging	
LN9038-05016	Bolt	2 pcs (2 ea)	110-Packaging	
DSI 9815-011	Replacement Receptacle	1 pcs (1 ea)	113-Small Fab - 2 - B4B	5140514

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	22208CM050016E	2	22	0
	23350CA050	2	45	0
	650.0401	1	9	0
	9752100180	1	0	0
	9945000120	1	9	0
	9945000160	1	13	0
	AN821-12J	2	30	0
	AN929-12J	1	17	0
	D4925-041	1	3	0
	D4931-1	1	9	0
	D4931-3	1	5	0
	D4931-5	1	6	0
	D4935-1	6	69	0
	D4943-1	1	15	0
	D4961-041	1	8	0
	D4961-043	1	9	0
	D5079-1	2	30	0
	D5090-041	1	9	0
	D5105-1	2	24	0
	D5110-1	1	28	0
	D5179-1	2	19	0
	D5179-3	2	20	0
	D5194-1	2	5	0
	D5208-041	3	12	0
	D5526-1	1	10	0
	D5526-3	1	8	0
	LN9038-05012	36	337	0
	LN9038-05016	2	103	0
	LN9038-05040	1	46	0
	LN9348-05	32	410	0
	MS20470AD3-4	18	5,777	0
	MS21919WCH12	1	45	0
	MS9592-138	1	19	0
	NAS1149D0332J	70	2,702	0
	NAS43DD3-64	1	28	0
110-Packaging	BS4320-A5	56	6	0
	LN29985-A05	15	389	0
	LN9038-05016	2	103	0
	LN9038-05018	56	731	0
	MS20426AD3-3	40	2,027	0
	QB21304	1	0	0
	QB21308	1	0	0
	QB21310	1	0	0
	QR10616	1	0	0
	DSI 9815-011	1	10	0
113-Small Fab - 2 - B4B				
Part Specifications				
Specifications could not be found.				

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-822 REV. H AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-822 REV. 6 OR LATER APPROVED REVISION

REF. TCCA STC: SH14-14
REF. FAA STC: SR03538NY
REF. ANAC STC: 2014S07-11
REF. JCAB STC: STC-372-OSA/STC-371-OSA
REF. EASA STC: 10056574

1.0 PURPOSE

The purpose of this Service Instruction is to facilitate the replacement of the QD3072-46 Receptacles that are installed on the QB21308 Assembly Screen manufactured by Pall Aerospace as part of the D350-822-011/-013 PA100 PUREair System with the DSI 9815-011 Replacement Receptacle kit. The intent of this DSI has been incorporated into D350-822-011 at CHG 005 and D350-822-013 at CHG 003.

2.0 PROCEDURE

2.1 To install the DSI 9815-011 Replacement Receptacle Kits,

- 2.1.1 Open or remove the Upper Engine Cowl per the Aircraft Maintenance Manual.
- 2.1.2 Remove the Air Intake Seal and the entire QB21308 Assembly Screen by removing qty(22) fasteners per the Aircraft Maintenance Manual. Retain Hardware.
- 2.1.3 Separate the FOD screen from the QB21496 Receptacle by turning the 1/4 turn fasteners and lift the FOD screen per Figure 1.
- 2.1.4 Drill out the retaining rivets and remove qty(4) QD3072-46 Receptacles from the QB21496 Receptacle. Remove any adhesive residue.
- 2.1.5 Position the qty(4) D5713-041 Receptacle Assy in the location shown in Figure 2. Transfer drill 2x $\varnothing 0.098$ " holes with CSK $\varnothing 0.179$ " $\angle 100^\circ$ on the top side from the D5713-041 Receptacle Assy to the QB21496 Receptacle. Touch up holes with Alodine 1200 per MIL-C-5541.
- 2.1.6 Mask nutplate holes and touch up the affected areas with prime and paint per ICA-D350-822.
- 2.1.7 Install qty(4) D5713-041 Receptacle Assy with qty(2) MS20426AD3-(5) Rivets per Figure 2.
NOTE: Although not generally necessary, it is acceptable to use longer or shorter MS20426AD3-X Rivets
- 2.1.8 Remove qty(4) 1/4 Turn Fasteners from the FOD Screen per Figure 1.
- 2.1.9 Reinstall the FOD screen on the QB21496 Receptacle using qty(4) AN4-5A bolts and qty(4) NAS1149D0432J Washers per Figure 2. Torque bolts to 50-70 in-lb (5.6-7.9 N-m).
- 2.1.10 Ensure the Engine Intake is clear.
- 2.1.11 Reinstall the QB21308 Assembly Screen between the Engine Intake Duct and the Air Intake Seal using qty(22) fasteners retained at step 2.1.2 per the Aircraft Maintenance Manual.
- 2.1.12 Reinstall the Upper Engine Cowl per the Aircraft Maintenance Manual.
- 2.1.13 Update the Aircraft Log Book to indicate installation of the DSI 9815-011 Replacement Receptacle Kit.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 18.12.10
CERT. NO.: SH14-14
ISSUE NO.: 2

APPROVED

A	NEW ISSUE	VS	18.12.10
REV.	DESCRIPTION	BY	DATE
DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	WK	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9815	SHEET 1 OF 4
APPROVED	VS	TITLE	SCALE
DE APPR.	DS	REPLACEMENT RECEPTACLE	NTS
DATE	18.12.10	COPYRIGHT © 2010 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

2.2 To remove the FOD screen,

2.2.1 Open Upper Engine Cowl.

2.2.2 Remove qty(4) AN4-5A bolts and qty(4) NAS1149D0432J Washers per Figure 3 and remove the FOD screen.

2.3 Reinstallation of FOD screen,

2.3.1 Ensure the Engine Intake and FOD Screen are clear.

2.3.2 Install the FOD Screen with qty(4) AN4-5A bolts and qty(4) NAS1149D0432J Washers per Figure 2.

2.3.3 Close Upper Engine Cowl.

3.0 WEIGHT AND BALANCE

The installation of the DSI 9815-011 Replacement Receptacle Kit has negligible effect on Weight and Balance

4.0 PARTS LIST

QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9815-011	REPLACEMENT RECEPTACLE KIT
4	D5713-041	RECEPTACLE ASSY
4	AN4-5A	BOLT
8	MS20426AD3-5	RIVET
4	NAS1149D0432J	WASHER

APPROVED

DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	VS	
CHECKED	WK	DRAWING NO. REV. A
MFG. APPR.	N/A	DSI 9815 SHEET 2 OF 4
APPROVED	VS	TITLE SCALE
DE APPR.	DS	REPLACEMENT RECEPTACLE NTS
DATE	18.12.10	COPYRIGHT © 2018 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

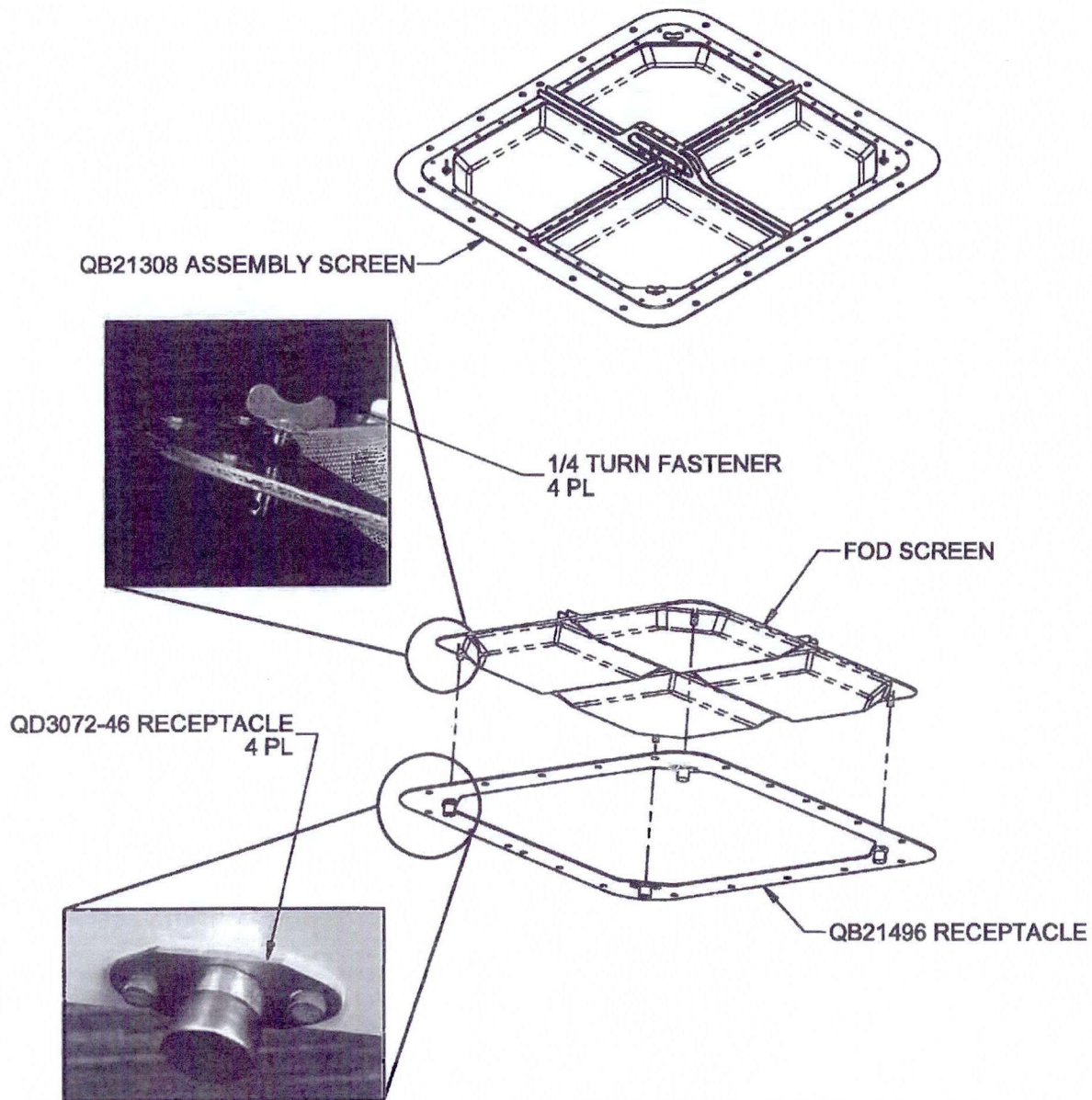


Figure 1 - QB21308 Assembly Screen

APPROVED

DESIGN	VS
DRAWN	VS
CHECKED	WK
MFG. APPR.	N/A
APPROVED	VS
DE APPR.	DS
DATE	18.12.10

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO.
DSI 9815

REV. A

SHEET 3 OF 4

TITLE
REPLACEMENT RECEPTACLE NTS

COPYRIGHT © 2018 BY DART AEROSPACE LTD.
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS
NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT
WRITTEN PERMISSION FROM DART AEROSPACE LTD.

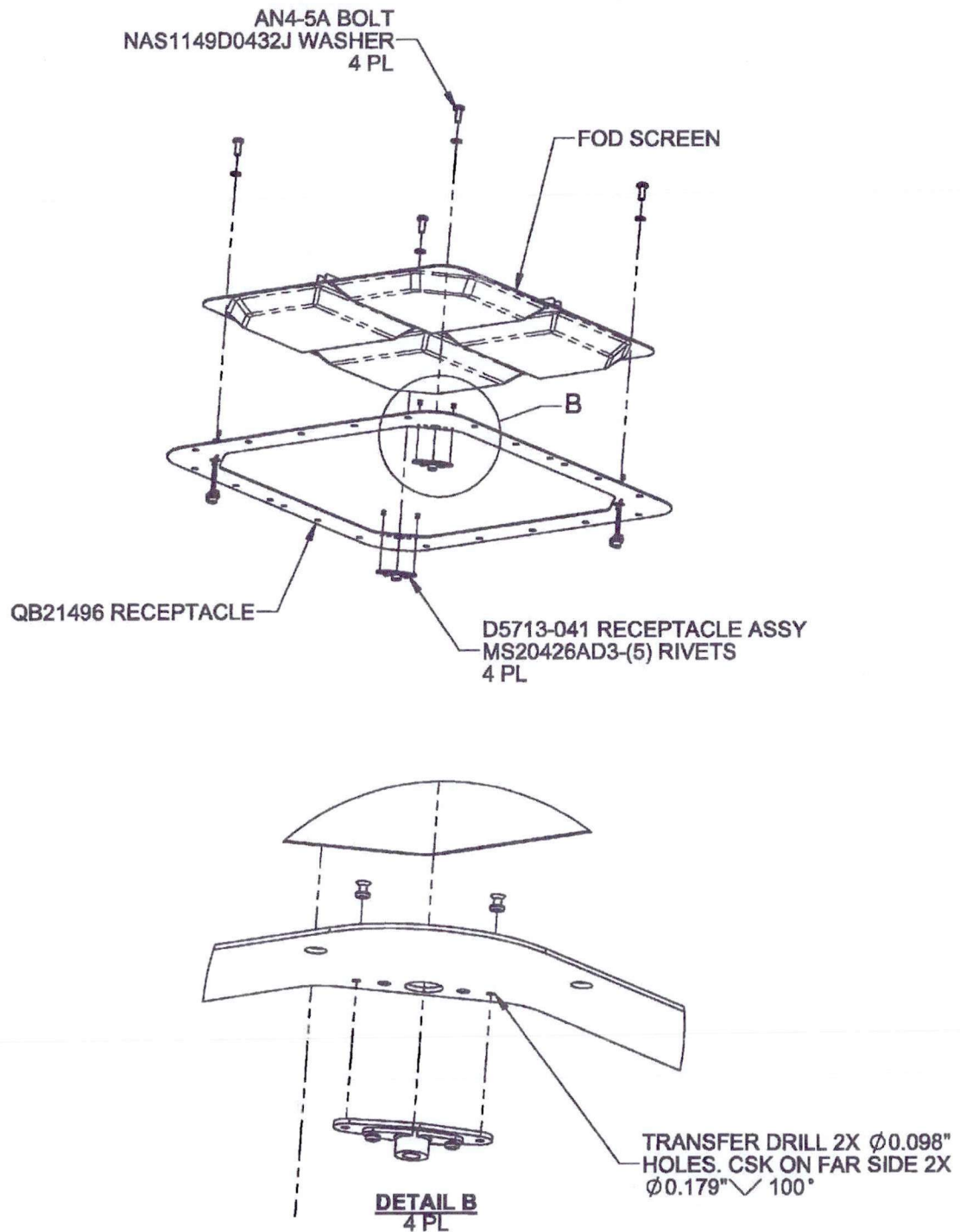
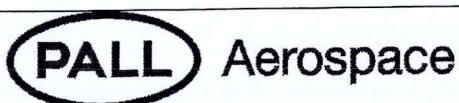


Figure 2 - DSI 9815-011 Replacement Receptacle Kit

APPROVED

DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	WK	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9815	SHEET 4 OF 4
APPROVED	VS	TITLE	SCALE
DE APPR.	DS	REPLACEMENT RECEPTACLE	NTS
DATE	18.12.10	COPYRIGHT © 2016 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



PRODUCTION ACCEPTANCE TEST CERTIFICATE

This is an Electronically controlled document which is maintained with Full Password Access for all users. The "Insp Stamp" column relates to an individual whose password is electronically controlled, a "wet stamp" is therefore no longer required.

Test Unit Desc	Centrisep EAPS	Issue	3	Report No:	FC1009
Drawing No	QB05008	Amdnt		Serial No.	RE10-10443
Part No	QB05008			Batch No.	RB18018676
ECR / Concession No					
Cust Spec	RSB05008	Test Sched	ATPB05008	Issue	4A
Test Fluid	Air	Test Set-up		Issue	
Rig Or Test No					
Comment	MQC 414A	Assembler	P. FRAZER	Tester	A. SAUNDERS
Insp/Approved By		Clock No.	402585	Date	312/19

	PROCEDURE	REQUIREMENT	RESULT	Pass/Fail
3.1	Check that the label requirements and part marking are in accordance with Sheet 2	Confirm	Confirmed	Pass
3.2	Ensure the QB05008 assembly conforms to the QB05008 Sheet 2 dimensions.	Confirm	Confirmed	Pass
3.3	Check the weight of the unit does not exceed 10kg.	Confirm	8.7kg	Pass
3.4	Check that proof pressure and crack detect tests have been performed on manifold.	Confirm	Confirmed	Pass
3.5	Check FOD screen mesh is intact with no broken mesh strands or irregular deformation.	Confirm	Confirmed	Pass
3.6	Check FOD screen receptacles are secure with no movement under finger pressure.	Confirm	Confirmed	Pass
3.7	Check FOD screen fits securely to receptacle plate and all 4 off studs engage positively with their corresponding receptacles.	Confirm	Confirmed	Pass
3.8	Check retaining washer has been added to 4 off quarter turn studs.	Confirm	Confirmed	Pass
3.9	Check manifold port thread engagement. Ensure protective cap is fitted.	Confirm	Confirmed	Pass
3.10	Check electrical bonding resistance is equal to or less than 100 milliohms.	Confirm	Confirmed	Pass
4.1	Check overall unit cleanliness.	Confirm	Confirmed	Pass
4.1a	Check there are no material imperfections or foreign matter embedded.	Confirm	Confirmed	Pass
4.1b	Check surface for unclean, rough, misaligned or containing cracks, nicks or other flaws.	Confirm	Confirmed	Pass

UNCONTROLLED DOWNLOADED COPY

4.1 c	Check for any components that are missing, malformed, fractured or otherwise damaged.	Valid on 03 Feb 2019 only. Confirmed	Confirmed	Pass
4.1 d	Check for any components that are loose or otherwise not securely retained.		Confirmed	Pass
4.1 e	Check for incorrect assembling or improper positioning of components.		Confirmed	Pass
4.1 f	Check for faulty workmanship or other irregularities e.g. Marking. Check for missing, insufficient, incorrect, illegible or non permanent text.		Confirmed	Pass
4.1 g	Check to ensure all components are installed and secured in accordance with drawing instructions.		Confirmed	Pass
4.1 h	Check that unit is free from all foreign objects: e.g. Swarf and rivet tails. Ensure unit is properly painted and is in a clean condition. Visually check unit for workmanship, no damage is permissible.		Confirmed	Pass
	PASS/FAIL			
RESULTS OF TEST :- <i>Pass</i>				
MQC 414A				

1. Approving Competent Authority/Country Civil Aviation Authority/ United Kingdom	AUTHORISED RELEASE CERTIFICATE EASA FORM 1	3. Form Tracking Number: 0150334
4. Organisation Name and Address: PALL Pall Corporation PALL EUROPE LTD. Pall Aerospace Division Cardrew Industrial Estate, Redruth, Cornwall, TR15 1SS, UK Tel No. 00 44 (0)1209 884200 Fax No. 00 44(0)1209 884310		5. Work Order/Contract/ Invoice: 4503324242

6. Item	7. Description	8. Part No.	9. Qty	10. Serial No.	11. Status/Work
1	Assy Separator Engine Air Particle Iss 3	QB05008	5	RE10-10441 to 10445 inc	New

12. Remarks

Dart Aerospace Ltd
1270 Aberdeen Street
Hawkesbury K6A 1K7
Ontario
CANADA

Pall Aerospace Batch No. RD18018676

(PALL REF - SAP ITEM No: 10)

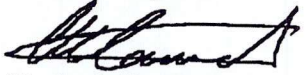
DDP 642 Iss C REFERS.

Note - QB05008 is a Kit of following parts: QB21304, QB21310 & QB21308.

f Hardware

Guidance and information on disposal / recycling of this product at the end of its life can be obtained from the "Disposal Instruction Guidance" section on Pall web site:
<https://aerospace.pall.com/en/disposal-instructions.html>

Order No. "STO" Order.
This document has been issued according to an approved computer-generated signature procedure.

13a. Certifies that the items identified above were manufactured in conformity to: ☒ approved design data and are in a condition for safe operation ☐ non-approved design data specified in block 12		14a. Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12 was accomplished in accordance with Part 145 and in respect to that work the items are considered ready for release to service.	
13b. Authorised Signature  Electronic Signature on File	13c. Approval/Authorisation Number UK.21G.2630	14b. Authorised Signature	14c. Certificate/Approval Ref. No UK.145.00296
13d. Name Dave Saunders - Line Leader EAPs - 0414	13e. Date (dd mmm yyyy) 04 Feb 2019	14d. Name	14e. Date (dd mmm yyyy)

USER/INSTALLER RESPONSIBILITIES

This certificate does not automatically constitute authority to install.

Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.

Statements in blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

ORDER ACKNOWLEDGEMENT

CUSTOMER	ORDER
Customer Code: CHAFR01 Sold To: Heli-Afrique PO Box 4284 Edenvale 1610 South Africa Phone: (011) 827-8632 Fax: 27-86-503-1870 Ship To: Heli-Afrique PO Box 4284 Edenvale 1610 South Africa Phone: 27-11-827-8633 Fax: 27-86-503-1870	Order No : 2483 Date: 10/31/18 Ship-To Contact: Tino Da Conceicao Email: tino.conceicao@heli-afrique.co.za Cust PO No: email 10-9-18 FOB: Shipping Point Ship Via: Freight Terms: PrePaid Terms: Prepay INCO Terms: Ex Works Order Taker: Kinga Lysiak Order Taker Phone: Order Taker Email: klysiak@dartaero.com

Line No	Due Date	Ship Date	Part	Description/Note	Quantity	Unit	Price	Unit	Extended Price
1	2/28/19	2/28/19	D350-822-011	PA100 PUREair System for AS350/EC130 6-8 weeks, Hawkesbury Canada	1	pcs	\$25,000.00USD	pcs	\$25,000.00 USD
Sub Total									\$25,000.00 USD
Grand Total									\$25,000.00 USD

ORDER NOTES

Good to GO

ship on dart DHL account, d&t billed to receiver. Customer to pay for freight charges later(see attach email).

Custom Clearance To Be Billed To Receiver

Duties & Taxes To Be Billed To Receiver

Ship Order As Soon As Possible

Use Unit/List Price On Shipping Documents

Waiting On Freight

All Prices Quoted In USD & Valid For 30 Days. All Parts Subject To Prior Sale & Are Ex-Works Manufacturing Facility In Hawkesbury, ON, Canada

S130827
w/ 183944